NPTEL Video Course - Civil Engineering - Design of Steel Structures

Subject Co-ordinator - Prof. Damodar Maity

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable │ MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Design of Steel Structures
Lecture 2 - Connections
Lecture 3 - Riveted Connections
Lecture 4 - Design of Rivet Joint
Lecture 5 - Welding
Lecture 6 - Design of Fillet and Butt Welds
Lecture 7 - Bolted Connection
Lecture 8 - Eccentric Connections
Lecture 9 - Design of Eccentric Connection With Load Lying in Plane of Joint Rivet Bolt
Lecture 10 - Eccentric Connection With Load Perpendicular to Plane of Riveted Joint
Lecture 11 - Analysis and Design of Join with Seat Connection
Lecture 12 - Eccentric Connection
Lecture 13 - Load Lying Perpendicular to the Plane of Weld Joint
Lecture 14 - Tension Member
Lecture 15 - Design of Tension Member
Lecture 16 - Design of Tension Member
Lecture 17 - Design of Tension Member
Lecture 18 - Compression Member
Lecture 19 - Design of Compression Member
Lecture 20 - Design of Eccentrically Loaded tension Member
Lecture 21 - Built up Compression Member
Lecture 22 - Design of Built up Compression Member
Lecture 23 - Lacing for Built Up Compression Member
Lecture 24 - Design of Lacing System
Lecture 25 - Design of Batten Plates
Lecture 26 - Introduction to Flexural Members
Lecture 27 - Design Procedure of Beam Members
Lecture 28 - Design of Laterally Supported Beams
Lecture 29 - Design of Laterally Unsupported Beams

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Lecture 30 - Built-Up Beams
Lecture 31 - Built-Up Beams
Lecture 32 - Design of a Built-Up Beams
Lecture 33 - Design of Shear Connections and Purlins
Lecture 34 - Gantry Girders
Lecture 35 - Design of Gantry Girders
Lecture 36 - Introduction to Plate Girders - Part 1
Lecture 37 - Introduction to Plate Girders - Part 2
Lecture 38 - Design of a Plate Girder
Lecture 39 - Column Base - Part 1
Lecture 40 - Column Base - Part 2
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